GSM/GPRS RTU Data Logger S200/S220/S240 Series

The King Pigeon S240 Serial GSM GPRS Telemetry Engine equipped Siemens MC55i quad-band GSM Module inside, is a low cost, M2M, data logger, universal GSM GPRS Engine which can transmit and receive analog, digital and pulse counter data, PLC, RS485 meter, Varity metering equipments to any device connected to the GSM/GPRS network such as mobile phones, Web Sites, SCADA, monitoring center, control room, etc.

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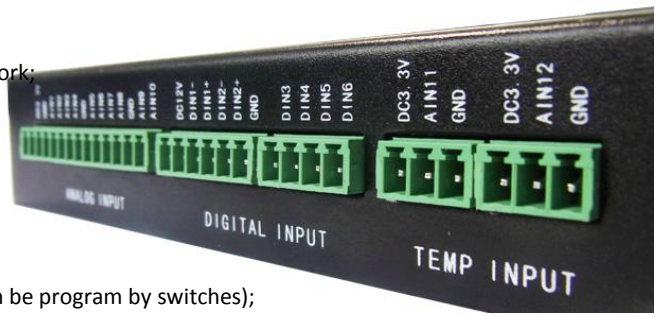
1) >>>S200/S220/S240 model list:

item	Input ports				Port	Relay outputs
Model	Analog (0-5V or 4-20mA)	Digital(NC/NO/EOL, or Pulse counter)	Temperature (DS18B20)	RS485	USB	Dry contact (250V/3A)
S200	4	2	2	1	1	2
S220	6	6	2	1	1	4
S240	10	6	2	1	1	4

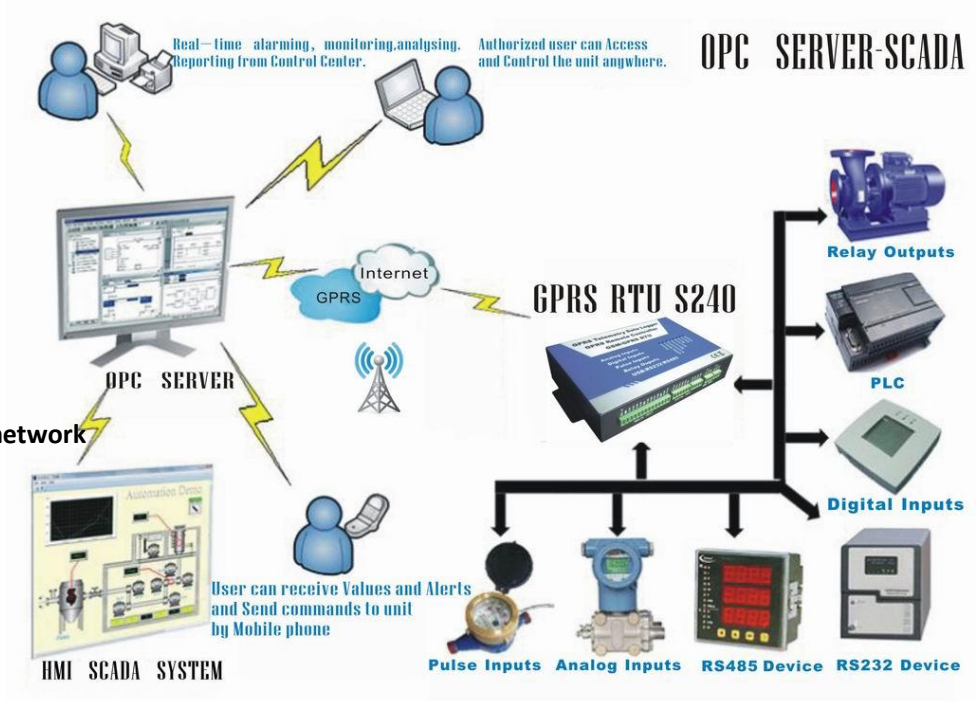
2) >>>S200/S220/S240 GPRS Data logger features:



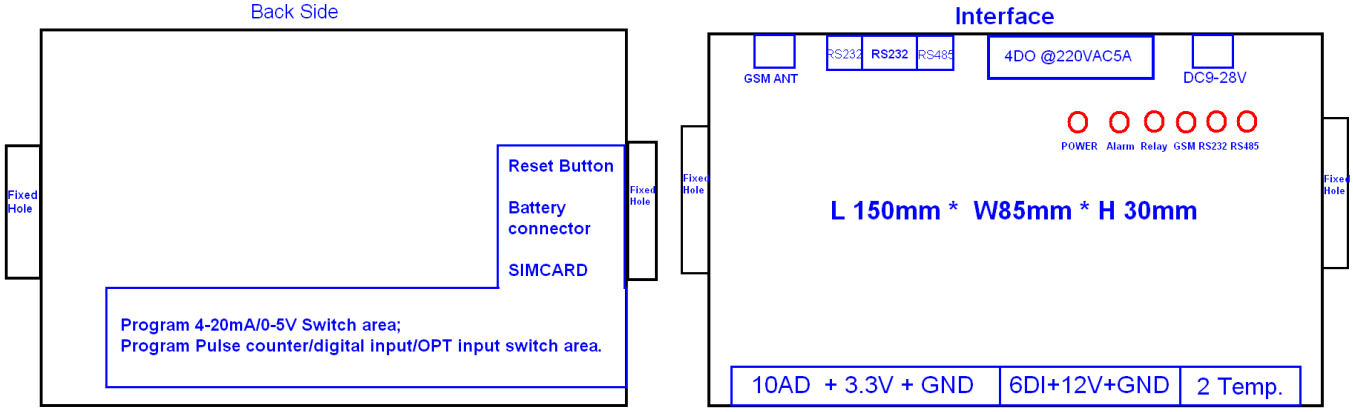
- Direct connection to the GSM GPRS Network;
- Transparent Serial Data Tunneling using low cost SMS/GPRS network;
- Remote Configuration by SMS Messages or GPRS;
- Upload data via GPRS or SMS on Schedule or event occurs;
- Supports Dynamic Domain name or fixed IP address;
- Supports SMS, CSD, GPRS, UDP and TCP/IP protocols;
- Supports Modbus RTU protocols;
- **1 RS485 Serial Ports for Modbus meter;**
- **UP TO 10 Analogue Inputs.** (12 bit resolution, 0-5V or 4-20mA can be program by switches);
- **UP TO 6 OPT Coupler (5-24V) Digital Inputs** can be programmed to NC/NO/Edge/Level type by switch, OPT and NON OPT can be programmed by switch, when alarm occurs can send Alarm Messages by SMS or GPRS or auto dial the preset phone numbers;
- **UP TO 6 digital inputs** can be used as Pulse Counters;
- **UP TO 4 OPT Digital Outputs** can be programmed as dial to switch on/off with free communication fee, alarm-linkage and Schedule to action, also can be send SMS to switch on/off;
- **UP TO 4 Digital Relay Outputs :**120VAC/3A, 24VDC /3A, Can be controlled by Event, scheme, Incoming call, SMS Commands, Timer, Interlock; 2 outputs can setup as NC or NO type;
- > User friendly PC Programming Interface, it can remotely program the terminals as well as to upload the data from the terminals by SMS or GPRS, all of the Current Value or status of the terminal can be display directly, and also will display the SMS Command details while you programming it;

3) >>>S200/S220/S240 is a low cost remote GPRS monitoring system suitable for:

- **>Environmental**
- **>Pumping station**
- **>Oilfield**
- **>Gas data acquisition**
- **>Power Station**
- **>Water level**
- **>Rain gauge**
- **>Urban water supply pipe network**
- **>Reservoir**
- **>Meter reading system**
- **>Sewage treatment**
- **>Transformer**



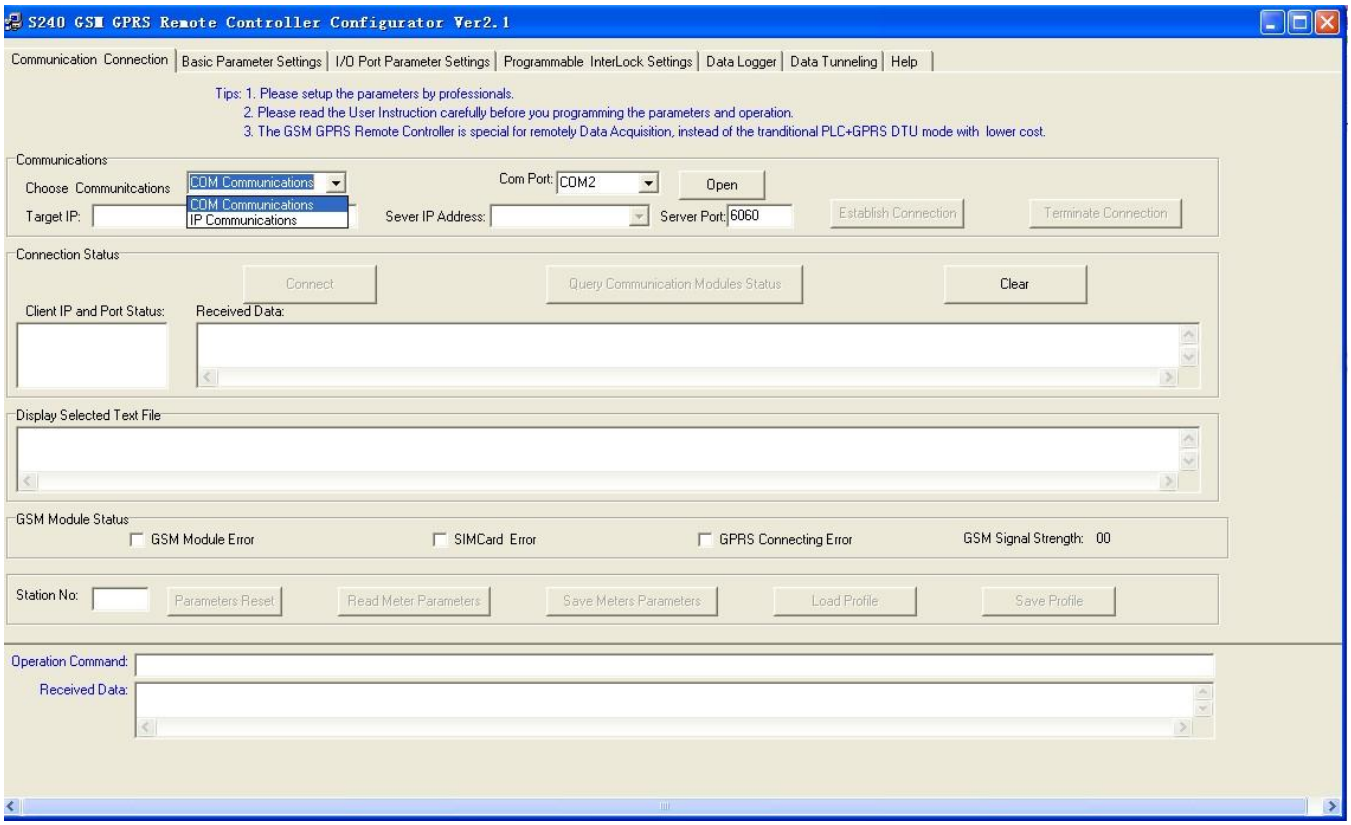
4) >>>Construction:



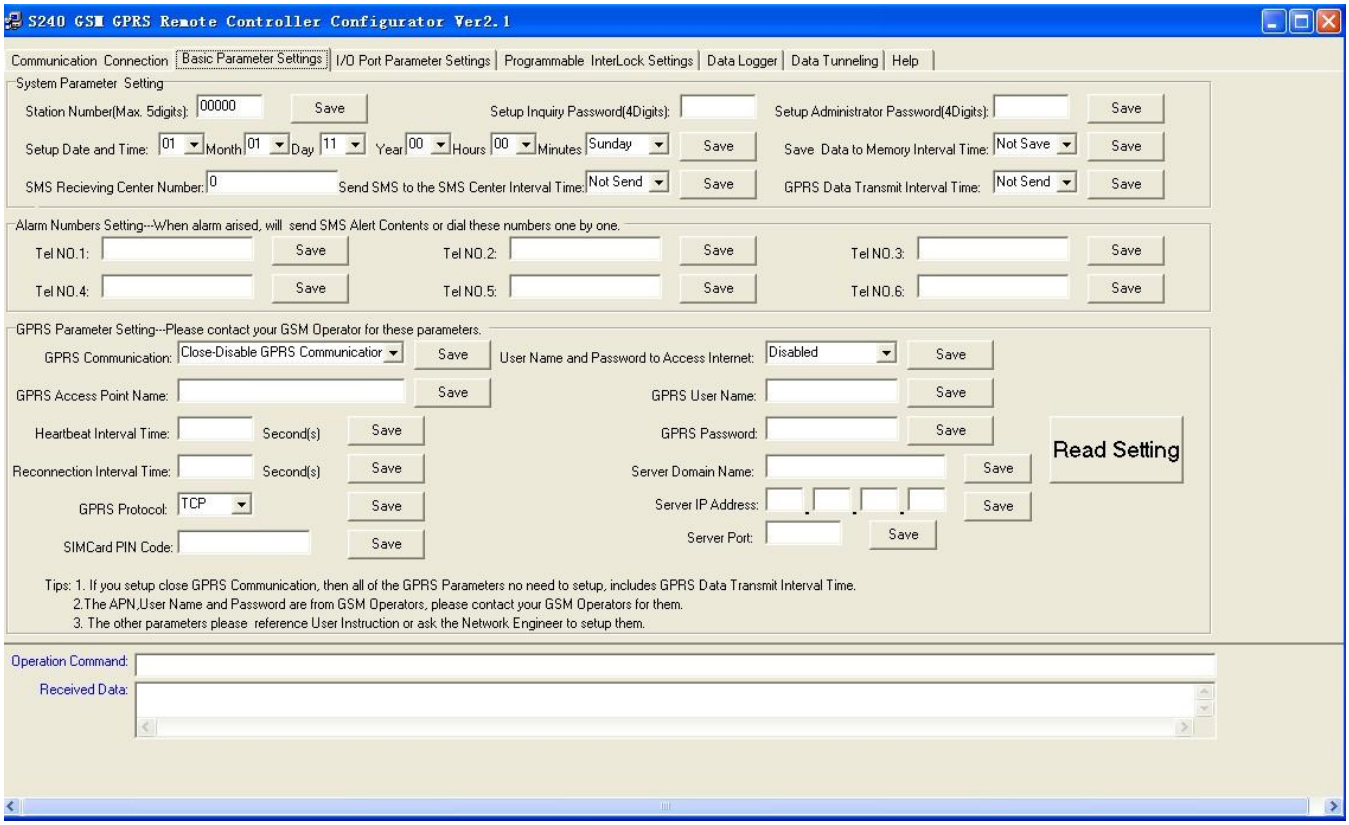
5) >>>S200/S220/S240 PC programmer software:

With this programmer software, users can setting all the I/O ports, administrator id, data transferring, and GPRS connection, IP address parameters, meanwhile, **manual/auto require data from S200s via GPRS network** is available.

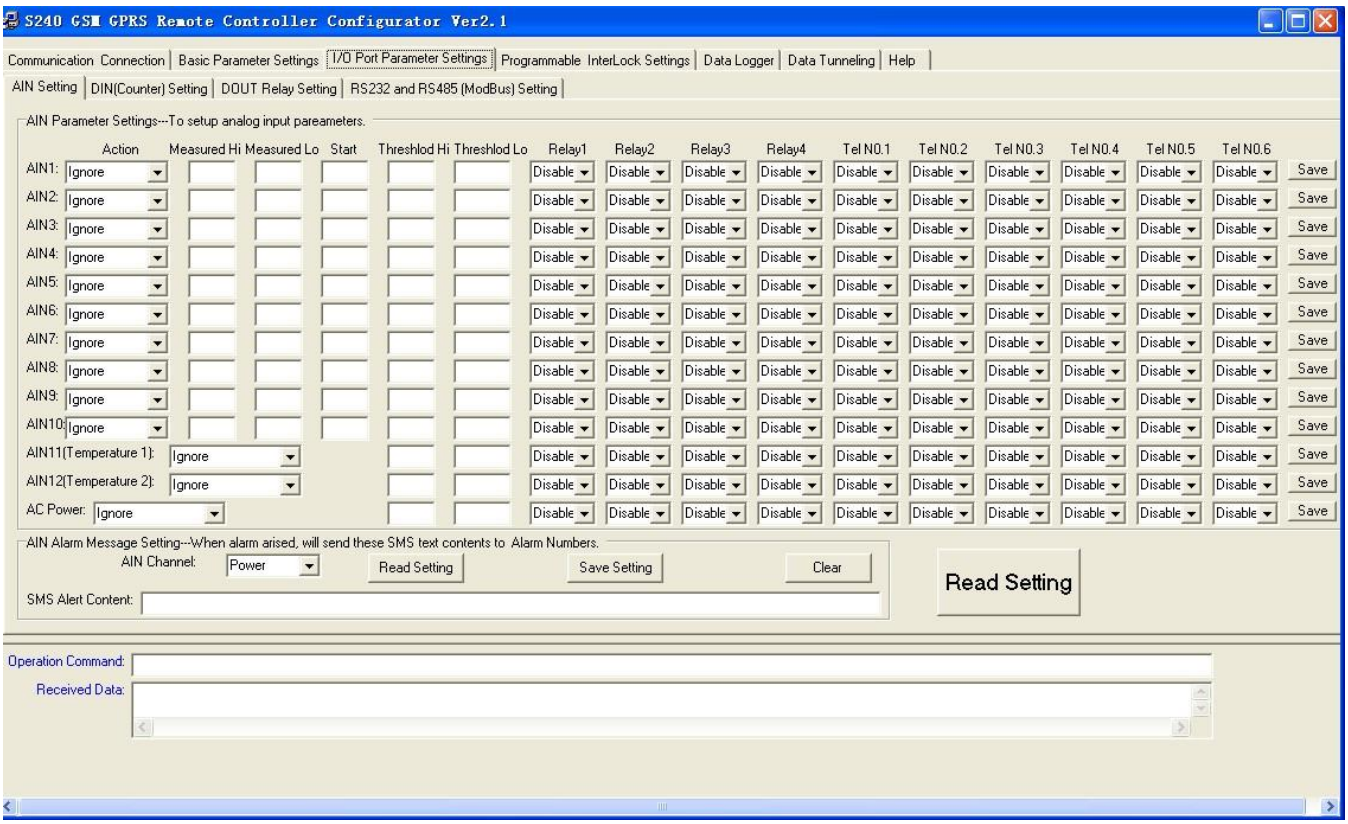
↓↓↓Connection setting---Local or GPRS connection, GSM/GPRS status indicate, COM port setting, etc.↓↓↓



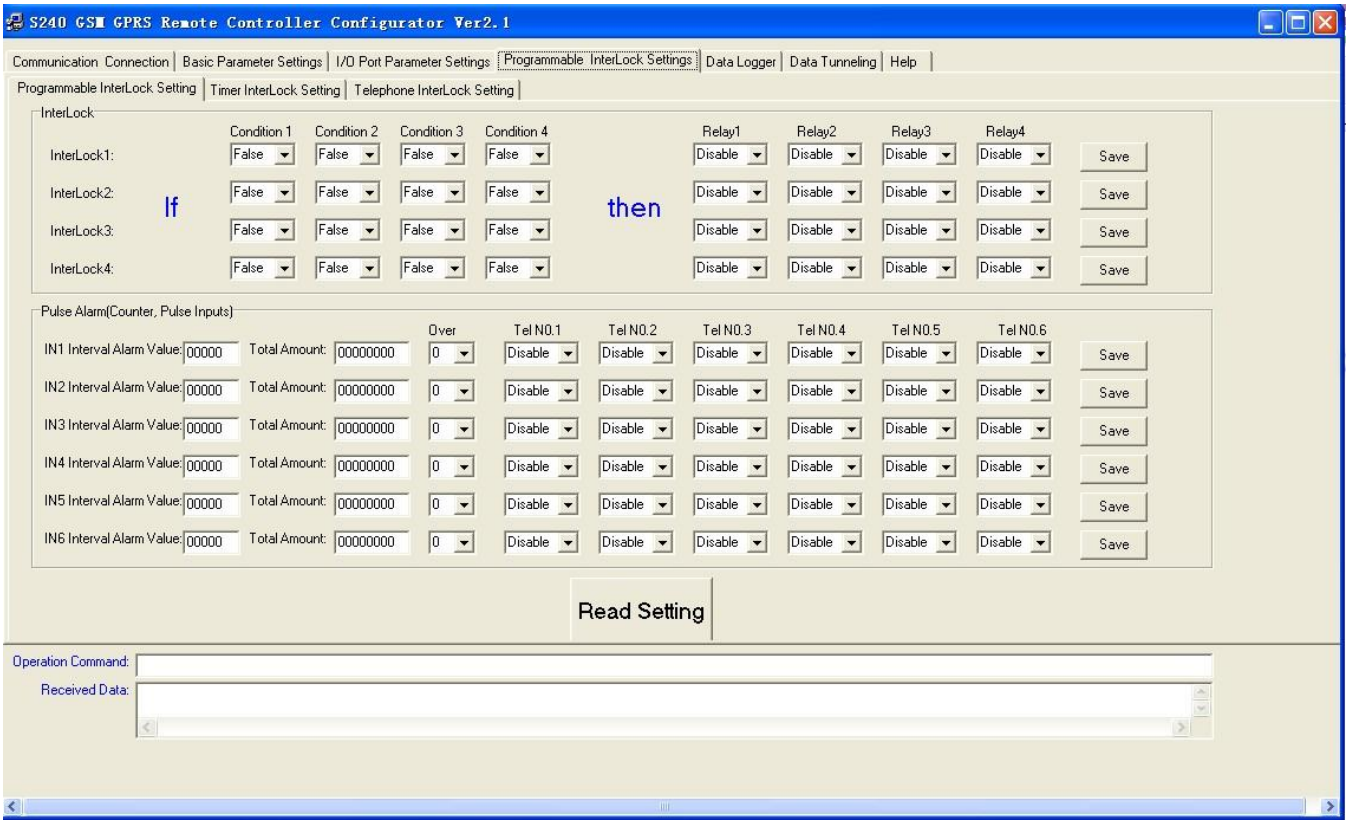
↓↓↓Basic setting---Time, date, SMS receiver, password, GPRS APN setting, auto-report timer, etc.↓↓↓


S240 GSM GPRS Remote Controller Configurator Ver2.1
Communication Connection
Basic Parameter Settings
I/O Port Parameter Settings
Programmable InterLock Settings
Data Logger
Data Tunneling
Help
System Parameter Setting
Station Number(Max. 5digits):
Setup Inquiry Password(4Digits):
Setup Administrator Password(4Digits):
Setup Date and Time:
Month
Day
Year
Hours
Minutes
Save Data to Memory Interval Time:
SMS Recieving Center Number:
Send SMS to the SMS Center Interval Time:
GPRS Data Transmit Interval Time:
Alarm Numbers Setting---When alarm arised, will send SMS Alert Contents or dial these numbers one by one.
Tel NO.1:
Tel NO.2:
Tel NO.3:
Tel NO.4:
Tel NO.5:
Tel NO.6:
GPRS Parameter Setting---Please contact your GSM Operator for these parameters.
GPRS Communication:
Close-Disable GPRS Communicatior
User Name and Password to Access Internet:
Disabled
GPRS Access Point Name:
GPRS User Name:
Heartbeat Interval Time:
Second(s)
GPRS Password:
Reconnection Interval Time:
Server Domain Name:
GPRS Protocol:
TCP
Server IP Address:
SIMCard PIN Code:
Server Port:
Read Setting
Tips: 1. If you setup close GPRS Communication, then all of the GPRS Parameters no need to setup, includes GPRS Data Transmit Interval Time.
2.The APN,User Name and Password are from GSM Operators, please contact your GSM Operators for them.
3. The other parameters please reference User Instruction or ask the Network Engineer to setup them.
Operation Command:
Received Data:

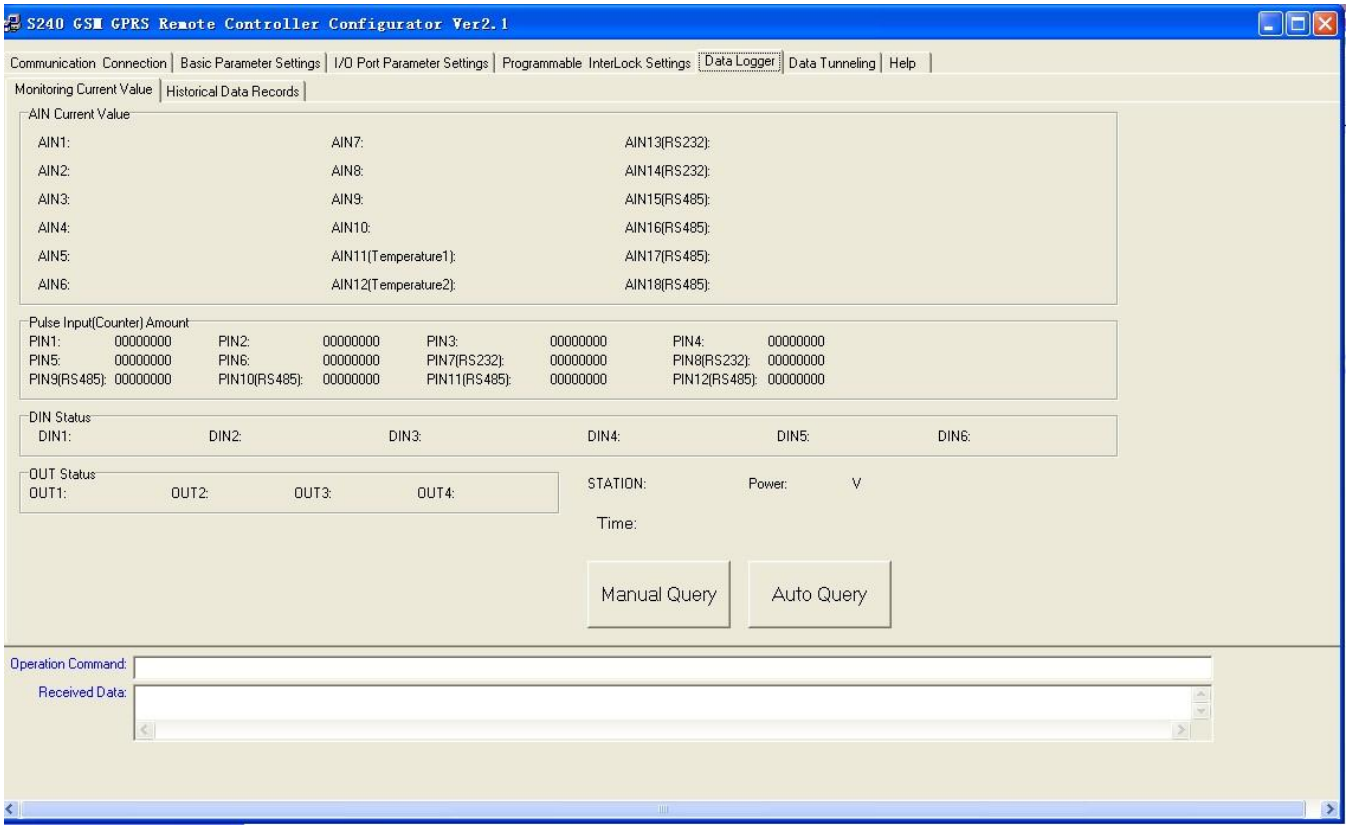
↓↓↓Input/Output setting---analog,digital,temperature,RS485 meter input parameter and output setting, etc.↓↓↓



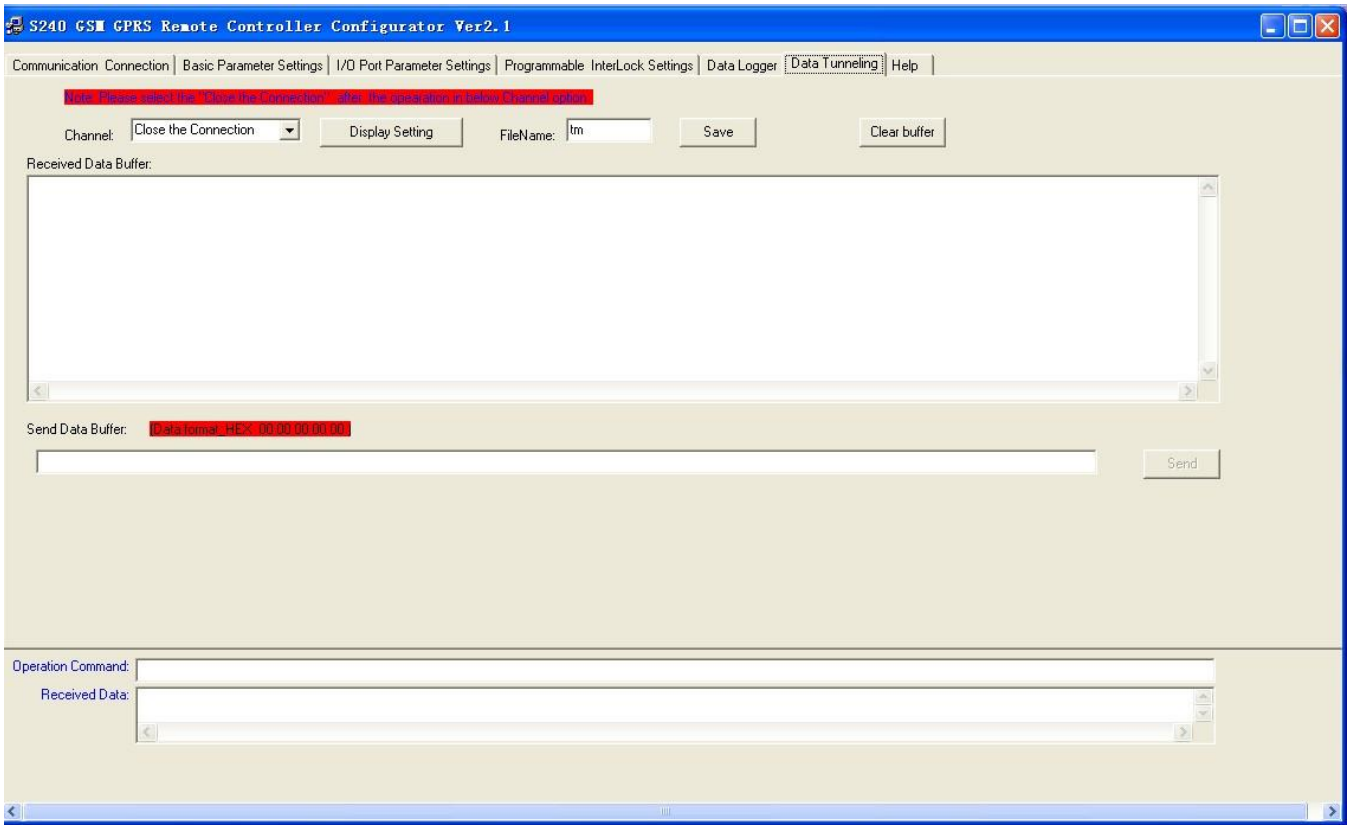
↓↓↓Interlock setting---digital counter parameters, timer, weekly timer, interlock, phone control setting, etc.↓↓↓



↓↓Date indicate---Real-time Analog data,temperature value,auto/manual query data via GPRS,History data etc.↓↓



↓↓↓Data tunneling ---RS485 meter data, etc.↓↓↓



6) >>>Specifications:

Parameter Item	Reference Scope
DC Power supply	Standard adapter: DC 12V/1.5A Reference scope 9-24V DC
Power consumption	Standby:12V/70mA; Working Max.: 12V/300mA
GPRS Module	Siemens MC55i
Frequency bands	Quad-band: EGSM 850,EGSM900, GSM 1800, GSM 1900, Compliant to GSM Phase 2/2+
Transmit power	Class 4 (2W) at EGSM 900 and EGSM 850; Class 1 (1W) at GSM 1800 and GSM 1900
GPRS connectivity	GPRS multi-slot class 10
GPRS Data Transmission	GPRS data downlink transfer: max. 85.6 kbps; GPRS data uplink transfer: max. 42.8 kbps.
TCP/IP stack	TCP,UDP
SIM interface	Supporting 3V SIM Card
External antenna	Connected via 50 Ohm antenna connector or antenna pad, SMA Antenna interface
Serial Interfaces	1 RS485 Port for Modbus meter, 1 USB Port for PC programmer;
Protocols	SMS, GPRS UDP, TCP, Modbus RTU, and more equipment protocols can be added according to requirements.
Digital Inputs	UP TO 6 OPT Coupler (Active Contact 3-24V);NC/NO/Edge/Level type; Active Contact and Passive Contact By Switch; Can be used as Pulse Counters;
Analog Inputs	UP TO 10 Analog Inputs. 12 bit resolution, 0-5V or 0-20mA;
Thermometer Inputs	2 Ports for DS18B20, Measures temperatures from -55°C to +125°C. Fahrenheit equivalent is -67°F to +257°F, ±0.5°C accuracy from -10°C to +85°C, Thermometer resolution is 12 bits.
Digital Relay Outputs	UP TO 4, AC240V/3A, DC24V/10A, Can be controlled by Event, scheme, Incoming call, SMS Commands, Timer, Interlock; 2 outputs can setting as NC or NO type;
Power Source Outputs	3 Ports with 3.3VDC/400mA Power for external device; 1 Port with 12VDC/750mA Power for external device;
Internal Backup Battery	7.2v 1200mAH
Work Temperature range	-10-+70 °C
Humidity range	Relative humidity 95% (condensation free)
Exterior dimension	170mm*115mm*33mm
Net Weight	600~1000 g

7) >>>Standard packing list:

- ✓ Main unit x1
- ✓ AC/DC Power supply adapter x1 (AC 100~240V to DC12V/2A, UK/AU/USA/EU type power plug available)
- ✓ USB cable x1
- ✓ CD disk (PC Configuration and User Manual) x1
- ✓ GSM Antenna x1
- ✓ Package Size:W300*D205*H75MM
- ✓ Gross Weight:1.5KG
- ✓ 5Pcs per carton

8) KingView SCADA software

KingSCADA software designed through a widely investigation from a lot of customers, and according to the trends of this Automation field development, it is a well-designed and new era of SCADA software. Broke the shackles of traditional concepts, creatively proposed the concept of the Model, which is an innovational change that makes a tremendous innovation from the traditional project-based development to a new systematic, modular development.

KingSCADA is middle and high-end market-oriented product. It possesses many remarkable characteristics including completed functions, integrated management, modular development, high stability and easy to learn and use, etc. Based on these, KingSCADA also provides abundant graphical development tools, stunning graphics elements and others which compose a facilitated developing environment. These will assist you to display the data through the consummate graphics. The modular architecture, break through the constraints of region and station scale, more flexible deployment, all these will highly enhance developer's efficiency and make the system maintain much easier to the operators, so that it will reduce the cost and ensure overall system run safer and more stable. In addition, this product can make up an open data platform, integrate any control system, Remote Terminal System (RTU), database, historical database and other system together, it can provide a powerful guarantee to complete the construction enterprise information system.

Key Benefits:

- Development skills are easily to master and friendly interface will shorten developers' learning cycle.
- The use of model development can reduce the workload and shorten development cycle time and cost, enhance the productivities.
- Complete the fault monitoring quickly and reduce the cost in the debugging process.
- High scalability guarantees synchronous update to keep identical with the new technology and products.
- High reliability and easy maintenance can save the cost of maintenance dramatically.
- The widespread 3rd-party interfaces integrate whole SCADA system into Enterprise Information Management System, e.g. MES、ERP etc., become the bridge of communication with other different fields.

Key Capabilities：

- Dynamic graphic, vividly show real production scene;
- Model reuse, work out the project with high efficiency;
- Intelligent diagnosis, system malfunction can be shown on line;
- Data block acquisition, acquire data accurately at high speed;
- Perfect redundancy, ensure system safety and Flexible network architecture, deploy network as need;
- GPRS Data Transmission, no distance limited.

9) Why King Pigeon?

King Pigeon is a professional GSM Alarm system, GSM elderly guarder alarm, GSM SMS Controller, GSM SMS temperature alarm and logger, GSM automation system, GPRS Data Logger, GPRS Temperature Logger; Power Monitoring System, GSM M2M products manufacturer!

Based on 7years rich experiences of design and manufacture GSM alarm, GSM SMS controller, GPRS RTU,GSM elderly guarder alarm, GSM gate opener, etc. Our products are newest and top-sales for the market, with attractive functions, reliable quality and competitive price.

Your any requests would be much appreciated, please do not hesitate to contact us.